

QCL-FW100-01

Plastic Pipe penetrating a flexible or rigid wall (100mm or thicker)



This standard detail is intended for general information only and all details should be checked against all relevant supporting test evidence, certification and installation guidelines. In line with the company's policy of continual development, details are subject to change and/ or withdrawal therefore you must ensure this is the latest published detail and instructions.

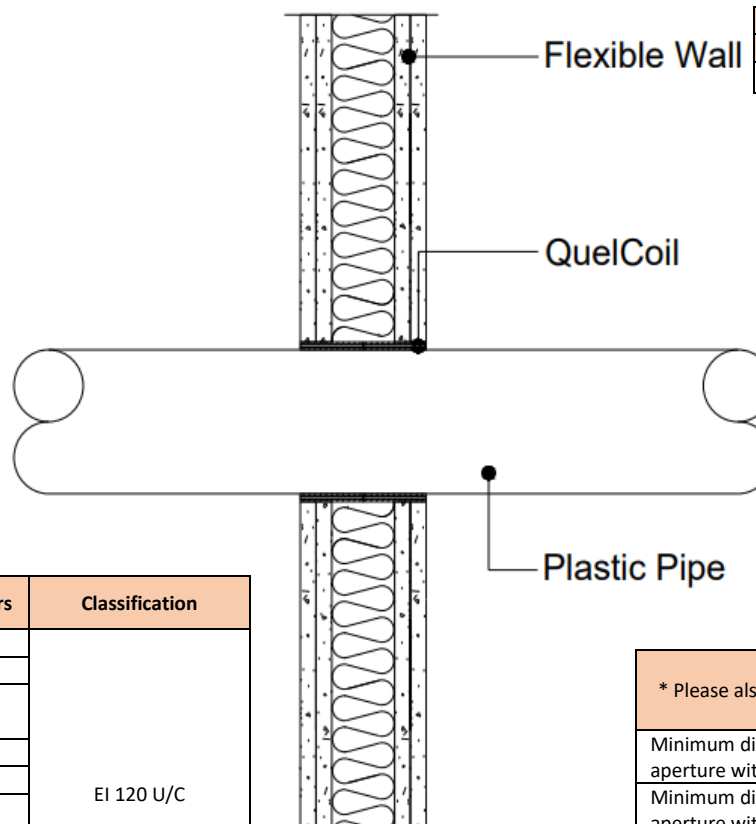
Additional Instructions

Flexible walls to be insulated ($\geq 45\text{kg/m}^3$ Rock Fibre) and to have a minimum 70mm wide stud and minimum 2no. layers of 12.5mm Gypsum boards in accordance with EN 520 or Calcium Silicate boards which are CE Marked based on an ETA on both sides of the stud.

This detail is only for when the aperture is accurately cut to suit the QuelCoil installation. Where the aperture is oversized then QuelStop Fire Batt and QuelStop Intumescent Sealant will be required – Please refer to the relevant QuelStop Fire Batt Detail.

Test results obtained with flexible supporting walls may be applied to concrete or masonry elements of an overall thickness equal to or greater than that of the element used in the test.

BS EN 1366-3:2021 Section 13.7: The distance between the aperture edges of penetration seals in a building element shall be as tested or minimum 100mm. The distance between the aperture edge of a penetration seal and any other penetration (e.g., door) in a building element shall be minimum 200mm.



Quelfire Products Required

Product Code	Description
QUELCOIL	QuelCoil Continuous Intuwrap CE Marked

Service Type	Size of Services	Pipe Wall Thickness	No. Of QuelCoil Layers	Classification
U-PVC	$\leq 50\text{mm}$	2.4 - 3.7mm	1 x 2mm Layer	EI 120 U/C
	51 - 75mm	See Graph on ETA	2 x 2mm Layers	
	76 - 109mm		3 x 2mm Layers	
	110mm	4.2 - 6.6mm		
PE, PE-X, ABS, SAN-PVC** Pipe	$\leq 50\text{mm}$	3.0 - 4.6mm	1 x 2mm Layer	
	51 - 75mm	See Graph on ETA	2 x 2mm Layers	
	76 - 109mm		3 x 2mm Layers	
	110mm	3.4 - 10.0mm		
PP	$\leq 50\text{mm}$	2.0 - 4.6mm	1 x 2mm Layer	E 120 U/C EI 90 U/C
	51 - 75mm	See Graph on ETA	2 x 2mm Layers	
	76 - 109mm			
	110mm	2.7mm	3 x 2mm Layers	
				2.7 - 10.0mm

*PE in accordance with EN1519-1, EN1266-1, EN 12201-2 and EN ISO 15494, PE-X in accordance with EN ISO 15875-2, ABS in accordance with EN 1455-1 and EN ISO 15493 as well as SAN+PVC in accordance with ISO 19220

Spacing as per BS EN 1366-3: 2021, Section 13.7	
* Please also consider any requirements that the wall manufacturer has with regards to spacing between openings.	
Minimum distance from edge of opening to another aperture with a service penetration tested to BS EN 1366-3	100mm*
Minimum distance from edge of opening to another aperture with a penetration <u>not</u> tested to BS EN 1366-3	200mm*

To be read in conjunction with:	ETA 20-1202 Pages 10 - 13
Test standard:	BS EN1366-3 & EN13501-2:2016
Substrate minimum thickness:	100mm
First service support:	$\leq 400\text{mm}$
Drawing Scale:	Not to Scale
Issue Number:	4
Date of Issue:	January 2023
Detail Reference:	QCL-FW100-01

Important Information:

- The supporting construction must be installed in accordance with the manufacturer's guidelines and must be capable of achieving the required fire rating of the firestop.
- All Services should be adequately supported either side of the firestop to ensure that no load is transferred onto the firestop seal.

Scope and Liability:

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